

# Subhro Pal

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## Professional Summary

Data-driven Data Scientist proficient in Python, SQL, Excel, Power BI, and Machine Learning. He works from end-to-end understanding the problem to building models and sharing results—to help teams make better decisions. He focuses on practical solutions that improve business performance and user experience.

## Education

### Jagran Lakecity University

*Bachelor of Computer Applications (Hons.) in Data Science, CGPA: 8.41/10*

Bhopal, Madhya Pradesh

*Expected Graduation: 2026*

## Technical Skills

**Programming Languages:** Python, SQL

**Data Visualization:** Tableau, Power BI, Advanced Microsoft Excel, Matplotlib

**Machine Learning Frameworks:** scikit-learn, TensorFlow, XGBoost

**Data Analytics:** Data Cleaning, Exploratory Data Analysis (EDA), Feature Engineering, Model Evaluation, Statistical Analysis

**AI and Deep Learning:** Machine Learning, Deep Learning, Generative AI, Natural Language Processing (NLP), EfficientNet-B0, LLaMA, Stable Diffusion

## Professional Experience

### Data Analytics Job Simulation

November 2025

*Deloitte Australia on Forage (Remote)*

*Tools: Tableau, Excel*

- Developed an interactive data dashboard in Tableau to visualize key business metrics and performance indicators
- Analyzed and classified client data using Advanced Excel functions to derive actionable insights for business decision-making
- Applied data analytics techniques to identify trends and patterns in large datasets

### GenAI Powered Data Analytics

November 2025

*Tata India on Forge (Remote)*

*Tools: Tableau, Excel*

- Completed a job simulation involving AI-powered data analytics and strategy development for the Financial Services team at Tata iQ.
- Conducted exploratory data analysis (EDA) using GenAI tools to assess data quality, identify risk indicators, and structure insights for predictive modeling.

## Projects

### CONTRA - AI-Driven Data-to-Art and Storytelling Platform | *Python, TensorFlow, Stable Diffusion, LLaMA*

- Developed a multimodal AI platform to transform text into contextual narratives, visuals, and chatbot interactions
- Engineered scalable APIs integrating Natural Language Processing (LLaMA) and image generation (Stable Diffusion) models
- Built real-time data pipelines aggregating data from Wikipedia, DBpedia, and GNews for contextual enrichment

### ORBITUNE - AI-Powered 16D Music Experience | *Python, Librosa, Demucs, FFmpeg, Gemini API*

- Engineered an AI audio processing system to convert stereo tracks into immersive 16D audio using Digital Signal Processing (DSP) and Machine Learning algorithms
- Integrated an emotion-aware chatbot (Gemini API) for user mood detection and personalized music recommendations
- Implemented audio feature extraction and transformation techniques using Librosa and Demucs

### Chhattisgarh Reservoir Level Modeling | *Python, XGBoost, Plotly, Tensorflow, Scikit-Learn*

- Processed hydrological (India-WRIS) and meteorological (IMD) data, converting raw daily files into a clean, weekly time-series for analysis.
- Trained and compared SARIMA (statistical) and LSTM (deep learning) models to forecast weekly reservoir water storage.

## Certifications and Awards

Nvidia - AI Infrastructure and Operations FundamentalsI

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate

Achievement of Academic Excellence Award - 100 percent scholarship